

PATENT

11321-P014US

-1-UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Richard E. Smalley et al.

Group Art Unit:

1773

Serial No.:

09/935,995

RECEIVED Examiner: Not Yet Assigned

Filed:

August 23, 2001

Title:

POLYMER-WRAPPED SINGLE WALL CARBON NANOTUBES

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This Information Disclosure Statement is being submitted in connection with the above-identified application for patent. Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

CERTIFICATION UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence (along with any item referred to as being enclosed herewith) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on March 5, 2002.

Signature

Gracie Segovia

(Printed name of person certifying)

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While this Information Disclosure Statement may be "material" pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 C.F.R. § 1.98(a)(1).

A copy of each of the items identified on the attached Form PTO-1449 is supplied herewith, except for the pending patent applications, for which no copies are being submitted.

Respectfully submitted,

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AUSTIN_1\184658\1 11321-P014US - 03/05/2002

09/935,995 In Place of FORM PTO-1449 (Modified) Serial No.: Richard E. Smalley et a Applicants: LIST OF PATENTS AND PUBLICATIONS FOR Filing Date: August 23, 2001

FOREIGN PATENT DOCUMENTS

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION DISCLOSURE STATEMENT					Applicants: Filing Date: Group: Atty. Docket No.:	August 23, 2001 1773 11321-P014US	•	
1	Reference Designa	ation	FOREIGN PATENT DOCUME				7 15 V	
	Examiner Initial	Document Number	Date	Name	Class	Subclass	Translation Yes No	`U
	AAA	EP 0 949 199 A1	10/13/1999	Europe			Yes	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Examiner Initial BAHR, et al., "Functionalization of Carbon Nanotubes by Electrochemical Reduction of Aryl Diazonium ADA Salts: A Bucky Paper Electrode," J. Am. Chem. Soc., Volume 123, Number 27, 2001, pp. 6536-6542. AEA COLEMAN, et al., "Percolation-dominated conductivity in a conjugated-polymer-carbon-nanotube composite," Physical Review B, Volume 58, Number 12, September 15, 1998, pp. R7492-R7495. AFA CURRAN, et al., "A Composite from Poly(m-phenylenevinylene-co-2, 5-dioctoxy-p-phenylenevinylene) and Carbon Nanotubes: A Novel Material for Molecular Optoelectronics," Adv. Mater., Volume 10, Number 14, 1998, pp. 1091-1093. DALTON, et al., "A functional conjugated polymer to process, purify and selectively interact with single wall carbon nanotubes," Synthetic Metals, 121 (2001), pp. 1217-1218. GRIMES, et al., "The 500 MHz to 5.50 GHz complex permittivity spectra of single-wall carbon nanotubeloaded polymer composites," Chem. Phys. Lett., 319 (2000), pp. 460-464. JUREWICZ, et al., "Supercapacitors from nanotubes/polypyrrole composites," Chem. Phys. Lett., 347 AIA (2001), pp. 36-40. McCARTHY, et al., "Complex nano-assemblies of polymers and carbon nanotubes," Nanotechnology, AJA Volume 12 (2001), pp. 187-190. PANHUIS, et al., "Optimal polymer characteristics for nanotube solubility," Synthetic Metals, Volume 121 (2001), pp. 1187-1188. O'CONNELL, et al., "Reversible water-solubilization of single-walled carbon nanotubes by polymer ALA wrapping," Chem. Phys. Lett., 342 (2001), pp. 265-271. STAR, et al., "Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes," Angew. AMA Chem. Int. Ed., Volume 40, Number 9 (2001), pp. 1721-1725. _ANA RIGGS, et al., "Strong Luminescence of Solubilized Carbon Nanotubes," J. Am. Chem. Soc., 122 (2000), pp. 5879-5880. _AOA DALTON, et al., "Selective Interaction of a Semiconjugated Organic Polymer with Single-Wall Nanotubes," J. Phys. Chem. B., 104 (2000), 10012-10016. JIN et al., "Nonlinear optical properties of some polymer/multi-walled carbon nanotube composites," Chem. Phys. Lett., 318 (2000), pp. 505-510 McCARTHY, et al., "Microscropy studies of nanotube-conjugated polymer interactions," Synthetic Metals, AQA 121 (2001), pp. 1225-1226. FAN, et al., "Synthesis, Characterizations, and Physical Properties of Carbon Nanotubes Coated by Conducting Polypyrrole," Journal of Applied Science, Volume 74 (1999), 2605-2610. TANG, et al., "Preparation, Alignment, and Optical Properties of Soluble Poly(phenylacetylene)-Wrapped ASA Carbon Nanotubes," Macromolecules, Volume 32 (1999), pp. 2569-2576. ATA CHEN, et al., "Carbon Nanotube and Polypyrrole Composites: Coating and Doping," Adv. Mater., Volume 12, Number 7 (2000), pp. 522-526.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered:

AUSTIN 1\184656\1 11321-P014US - 03/01/2002

Examiner: